



OSMONICS
Process Water Group

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E-Series Ozone Generator System

(10 – 57 g/hr / 6 – 10% wt concentration)

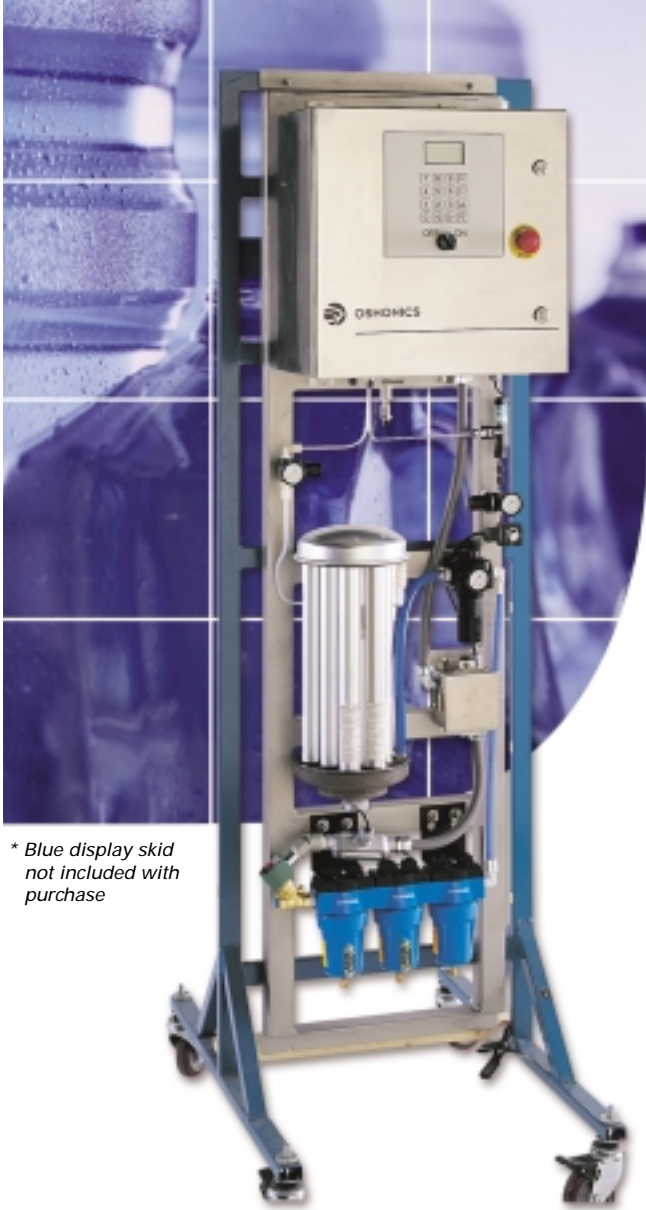
Oxygen Concentration Ozone Generation

A Quantum Leap in Ozone Generation – The Osmonics E-Series ozone system exceeds the industry standard for customers demanding stable ozone output and reliability. The performance is unequalled in the industry, with the capability of reliably producing high concentration ozone – 6 to 10% by weight, while efficiently producing up to 3 ppd (57 g/hr) of ozone.

The Ozone generation system uses Osmonics E-Series flat plate ozone generator and an oxygen generation system. The standard system design is dual rated for 50/60 Hz operation and requires one single point power connection.

Features and Benefits

- Compact – wall mountable design
 - Allows easy installation
- Stainless steel frame for wall mounting
- Pressure regulators for air into and oxygen out of the oxygen concentrator
- Pressure regulator for cooling water
- Cooling water low flow switch and automatic inlet on/off valve
- Supply air filtration (Particle filter – 1 micron, Oil Coalescing filter, and Hydrocarbon Adsorption filter)
- High concentration ozone (6 – 10% by weight)
 - Low parent gas usage equals low operating cost
- Advanced control system
 - Extremely flexible control system that includes interfaces for front panel operation, from an easy-to-use local mode to a remote mode controlled by an industry standard 4 – 20 mA current loop
- Durable ceramic flat plate cell construction
- Worldwide input power compatibility
 - It will work anywhere in the world with single-phase power
- Environmentally protected in a 304 stainless steel enclosure



* Blue display skid not included with purchase

Applications

- Bottled Water
- Industrial Processes
- Aquatic Life Support Systems
- Pharmaceutical
- Food Processing

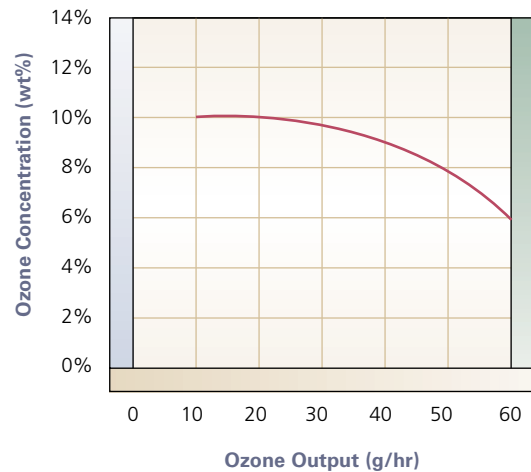
Pre-Engineered Accessories

- Ozone Injection Skids
- 316LSS Contact Towers
- Ozone Destruct Modules
- Ambient Ozone Monitors
- Dissolved Ozone Monitors

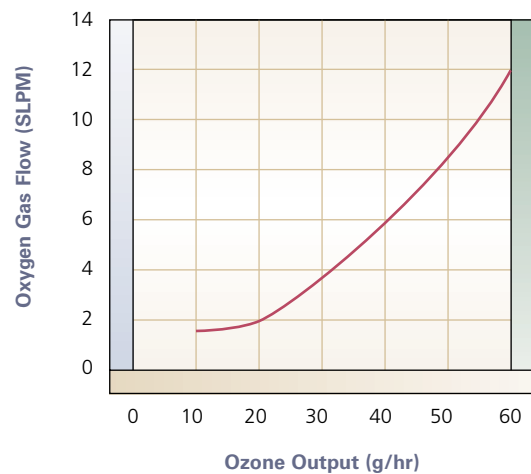
Product Specifications

Performance Characteristics ¹	
<u>Oxygen Concentrator:</u>	
Gas Output	25 scfh at 90% oxygen weight conc.
Parent Gas	Compressed Air
Drying Capability	-100°F dew point
<u>Ozone Generator:</u>	
Ozone Output	0.5 – 3 lbs/day
Ozone Concentration	10 – 6%
Gas Outlet Pressure	4 – 15 psig
Materials of Construction	
Frame	304 Stainless Steel
Enclosure	Brushed Stainless Steel
O2/O3 Gas Tubing	PTFE/304 Stainless Steel
Air Tubing	Polypropylene
Water Tubing	Polypropylene
Installation and Utility Requirements	
Cooling Water Flow ²	0.5 gpm (at 20 – 40 psig) at 50 – 85°F (at or above ambient dew point)
Cooling Water Inlet/Outlet	0.25-inch FNPT
Compressed Air Flow	5.5 cfm at 45 psig (11 scfm)
Compressed Air Inlet	0.5-inch FNPT
Ozone Gas Piping Outlet	0.25-inch MNPT
Electrical Power	208 – 240 VAC, 1-Phase, 50/60 Hz, 3.5 Amps Full Load
Frame Dimensions	71-inch height x 18-inch width x 17-inch depth
Approximate Shipping Weight	200 lbs
Control Input/Output	
Inputs	
Room Ozone Alarm	Dry Contact Close to run
Remote Enable	Dry Contact Close to run
Remote Control	4 – 20 mA (0 – 100% Output)
Outputs	
Remote Ready Alarm	Dry Contact Dry Contact Close Fault
Local	
Display	Backlit Graphic LCD Display
Keyboard	Sealed 16 Key Membrane

Ozone Concentration vs. Output



Oxygen Gas Flow vs. Output



¹ Performance Characteristics based on a parent gas inlet pressure of 15 psi (consisting of >90% oxygen at a maximum dew point of -80°F) and 70°F (21°C) cooling water flowing at 0.5 gpm (1.9 l/m) for Model EO3-1.

² Cooling Water shall be potable quality or better. Minimum Temperature to be greater than ambient dew point.

For More Information:

Call the Osmonics Process Water Group at (952) 933-2277 or (800) 766-2599, or visit www.osmonics.com



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